

New Jersey Sports & Exposition Authority Tide Gate Inspection Report

prepared in conformity to

**The National Flood Insurance Program
Community Rating System**

by

The New Jersey Sports and Exposition Authority

One DeKorte Park Plaza

Lyndhurst, New Jersey

December 7, 2016



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1. Executive Summary

The New Jersey Sports and Exposition Authority (“NJSEA”) participates in the Federal Emergency Management Agency’s (FEMA) Community Rating System (“CRS”) on behalf of the 14 municipalities within the New Jersey Sports and Exposition Authority District. This program is voluntary and recognizes and encourages community floodplain management activities that exceed the minimum National Flood Insurance Program (“NFIP”) requirements.

Property owners and tenants in the New Jersey Sports and Exposition Authority District currently enjoy a flood insurance discount due to the continued efforts by the NJSEA to exceed the program requirements. As required per the CRS Coordinator’s Manual Activity 540, “Drainage System Maintenance,” the NJSEA evaluated the functionality of all of the tide gates and pump stations within the District. The conditions of the facilities, along with maintenance recommendations, have been documented based on numerous inspections. From the analysis of this inspection data, the NJSEA has identified deficiencies in the water control structures and has been able to rate the overall condition of the District’s storm surge protection measures.

2. Inspection Process

Prior to each inspection, NJSEA reviewed the 2015 Activity 540 inspection reports in order to have a basic understanding of each flood control structure and its previously reported condition for comparison. Utilizing GIS data, NJSEA also verified each structure’s location and noted any significant changes to land uses with their respective drainage areas per aerial photos.

Due to the significant tidal impact on the structures, the tide gates were inspected at low and high tide condition. By inspecting during both conditions, the NJSEA was able to observe both how well each tide gate was sealing against high tide backwater pressure, and how freely the tide gates were opening to allow upstream channels to empty during low tide. Also, low tide inspections provide a good view of typically submerged system components such as hinges, trash rack, and scour control, while high tide inspections help to identify seepage, undermining, and poor tide gate contact to its seal. Inspecting at various tide conditions also provides a better observation of the impact fluvial flooding will have during high tide conditions. There are several tide gate locations where high tide conditions and high intensity rainfall event will cause severe flooding in the area.

Each of the pump stations was inspected with the respective municipality's Department of Public Works (DPW) present to ensure access to all facilities. Additionally, the NJSEA requested that each pump station be tested during the inspection to ensure the system is operating properly. During each of the inspections, NJSEA performed a general survey of the upstream and downstream area and verified that the garbage racks were clean, the tide gates were seating properly, if any part of the flood control structure was damaged, and if damaged, the extent of damage and the required maintenance necessary. All inspections included pictures of the drainage structures, including upstream of structure (if possible), downstream of structure, and any areas of concern around the facility. Each tide gate and pump station mapped location was checked and revised, as necessary, using field notes and aerial photography.

3. Inspection Reports

Inspection reports are found in alphabetical order within each municipality's sub-section.

Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name:	Bashes Creek Ditch System (Carlstadt) – Location #4				
Location:	Block 137	Lot 2			
Description:	Bashes Creek Tide Gate				
Date:	5/10/16	Time of Inspection:	<u>1</u>	:	<u>15</u> AM/PM
Tide Conditions:	(Low/High)	Time of Tide Event:	<u>1</u>	:	<u>17</u> AM/PM
Conditions:	68 degrees, sunny	(Rain, Snow, High Wind, Cloudy, Sunny, etc.)			
Inspected By:	Fawzia Shapiro & Jeff Zielinski				

Type of Inspection:		Notes on Condition/Problems:	
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Tide gate is functional	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	Ditch is clear	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System		
System Designation:			
<input checked="" type="checkbox"/> Natural Stream	<input type="checkbox"/> Culvert		
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall		
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	Notes on Maintenance:	
Overall Functionality:			
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide		
<input type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide		
<input type="checkbox"/> Non-Functional			
Maintenance Required:			
<input type="checkbox"/> Immediate		Other Notes:	
<input type="checkbox"/> Repair			
<input checked="" type="checkbox"/> Continued Upkeep			

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Lyndhurst, New Jersey 07071



Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Bashes Creek Tide Gate (Carlstadt)



Figure 1: Downstream view from bridge



Figure 2: Upstream view of tide gate from bridge

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Division of Land Use Management (LUM)
New Jersey Sports & Exposition Authority
One DeKorte Park Plaza
PO Box 640
Carlstadt, New Jersey 07071



Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Bashes Creek Tide Gate (Carlstadt) – Location #4
Location: Block 128 Lot 20
Description: Bashes Creek Tide Gate
Date: 5/19/16 **Time of Inspection:** 2 : 02 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 2 : 41 AM/PM
Conditions: 69 degrees, cloudy (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: There is no trash present. There is minor vegetative debris (dead phragmites) which does not impede flow. Water is flowing freely.
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input checked="" type="checkbox"/> Other: at bridge		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Bashes Creek Tide Gate (Carlstadt)



Figure 1: Upstream view of tide gate from bridge



Figure 2: Upstream view of tide gate from bridge

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Broad Street and 20th Street Tide Gate (Carlstadt)
Location: Block 120 Lot 13
Description:
Date: 7/7/16 **Time of Inspection:** 12 : 23 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 32 AM/PM
Conditions: 90 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Tide gate not visible due to dense vegetation at high tide Pipes/inlets upstream of tide gate are filled with water Appears that tide gate is not working No street flooding
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input checked="" type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input type="checkbox"/> Fully Functional <input checked="" type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Broad Street & 20th Street Tide Gate (Carlstadt)



Figure 1: Downstream view at tide gate



Figure 2: Top view at tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Broad Street and 20th Street Tide Gate (Carlstadt)
Location: Block 120 Lot 13
Description:
Date: 6/30/16 **Time of Inspection:** 12 : 30 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 26 AM/PM
Conditions: 87 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Tide gate not visible due to overgrown vegetation Upstream areas indicate tide gate is working Ditch is clear
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		
		Notes on Maintenance:
		Other Notes:

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Drainage System Inspection Photos

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Site ID/Name: Broad Street & 20th Street Tide Gate (Carlstadt)



Figure 1: Downstream view at tide gate



Figure 2: Top view at tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Dell Road Tide Gate (Carlstadt)
Location: Block 123.01 Lot 28
Description:
Date: 4/28/16 **Time of Inspection:** 11 : 30 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 8 : 19 AM/PM
Conditions: 58 degrees, Sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Minor debris – plastic bottles, dead phragmites Ditch is clear
System Designation: <input type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance: Minor clearing
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input checked="" type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Dell Road Tide Gate (Carlstadt)



Figure 1: Top view of tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: East Riser Tide Gate (Carlstadt)

Location: Block 123.01 Lot 6

Description:

Date: 6/10/16

Time of Inspection: 1 : 45 AM/PM

Tide Conditions: (Low/High)

Time of Tide Event: 2 : 45 AM/PM

Conditions: 76F, Sunny

(Rain, Snow, High Wind, Cloudy, Sunny, etc.)

Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems:
<input type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Debris on upstream side at trash rack.
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	
System Designation:		
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert	Notes on Maintenance:
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall	Bergen County Mosquito Commission to clear debris
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other:	
Overall Functionality:		
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide	
<input type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide	
<input type="checkbox"/> Non-Functional		
Maintenance Required:		Other Notes:
<input type="checkbox"/> Immediate		
<input type="checkbox"/> Repair		
<input checked="" type="checkbox"/> Continued Upkeep		

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: East Riser Tide Gate (Carlstadt)



Figure 1: Upstream view of ditch at tide gate



Figure 2: Upstream view of ditch at trash rack

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: East Riser Tide Gate (Carlstadt)
Location: Block 123.01 Lot 6
Description:
Date: 4/28/16 **Time of Inspection:** 11 : 45 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 8 : 19 AM/PM
Conditions: 58 degrees, Sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Old trash rack is falling apart. Both trash racks need to be cleared. At downstream side, water is entering the end chambers
System Designation: <input type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance: Clear trash rack
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input checked="" type="checkbox"/> Low Tide		
Maintenance Required: <input checked="" type="checkbox"/> Immediate <input type="checkbox"/> Repair <input type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

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Site ID/Name: East Riser Tide Gate (Carlstadt)



Figure 1: Upstream view of ditch at tide gate



Figure 2: Downstream view of trash rack

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Peach Island Creek Tide Gate
Location: Block 123.01 Lot 12
Description:
Date: 5/23/16 **Time of Inspection:** 2 : 10 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 30 AM/PM
Conditions: 83 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: 2 tide gates of the 4 are not operational (1 welded shut, 1 broken hinge) Other 2 tide gates are working Ditch is clear
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other: 4 pipes		Notes on Maintenance:
Overall Functionality: <input type="checkbox"/> Fully Functional <input checked="" type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		Other Notes:
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		

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Drainage System Inspection Photos

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Site ID/Name: Peach Island Creek Tide Gate (Carlstadt)



Figure 1: Downstream view at tide gate



Figure 2: Upstream view at tide gate

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Site ID/Name: Peach Island Creek Tide Gate (Carlstadt)



Figure 3: Upstream view at tide gate



Figure 4: Downstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name:	Moonachie Creek Ditch System (Carlstadt) – Location #4				
Location:	Block 128	Lot 20			
Description:	Upper Moonachie Creek Tide Gate				
Date:	5/10/16	Time of Inspection:	<u>1</u>	:	<u>00</u> AM/PM
Tide Conditions:	(Low/High)	Time of Tide Event:	<u>1</u>	:	<u>17</u> AM/PM
Conditions:	68 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)				
Inspected By:	Fawzia Shapiro & Jeff Zielinski				

Type of Inspection:		Notes on Condition/Problems:	
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Ditch is clear	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	No debris	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	Tide gate is fully functional	
System Designation:			
<input checked="" type="checkbox"/> Natural Stream	<input type="checkbox"/> Culvert		
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall		
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	Notes on Maintenance:	
Overall Functionality:			
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide		
<input type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide		
<input type="checkbox"/> Non-Functional			
Maintenance Required:			
<input type="checkbox"/> Immediate		Other Notes:	
<input type="checkbox"/> Repair			
<input checked="" type="checkbox"/> Continued Upkeep			

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Upper Moonachie Creek Tide Gate (Carlstadt)



Figure 1: Downstream view from tide gate



Figure 2: Upstream view of tide gate

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New Jersey Sports & Exposition Authority
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Carlstadt, New Jersey 07071



Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Moonachie Creek Ditch System (Carlstadt) – Location #4
Location: Block 128 Lot 20
Description: Upper Moonachie Creek Tide Gate
Date: 5/19/16 **Time of Inspection:** 1 : 50 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 2 : 41 AM/PM
Conditions: 69 degrees, cloudy (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: The ditch is clear. There is not apparent debris. Water is flowing freely.
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input checked="" type="checkbox"/> Other: at bridge		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Upper Moonachie Creek Tide Gate (Carlstadt)



Figure 1: Upstream view of tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Waitex Tide Gate (Carlstadt)
Location: Block 120 Lot 18
Description:
Date: 7/7/16 **Time of Inspection:** 12 : 30 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 32 AM/PM
Conditions: 90 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems:
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Inlets upstream of tide gate contain water
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	Tide gate may not be fully functional
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	No flooding in parking lot or street
System Designation:		
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert	
<input type="checkbox"/> Manmade Channel	<input checked="" type="checkbox"/> Outfall	
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other:	
Overall Functionality:		
<input type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide	
<input checked="" type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide	
<input type="checkbox"/> Non-Functional		
Maintenance Required:		
<input type="checkbox"/> Immediate		Other Notes:
<input type="checkbox"/> Repair		
<input checked="" type="checkbox"/> Continued Upkeep		

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Waitex Tide Gate (Carlstadt)



Figure 1: Downstream view at tide gate



Figure 2: Top view at tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Waitex Tide Gate (Carlstadt)
Location: Block 120 Lot 18
Description:
Date: 6/30/16 **Time of Inspection:** 12 : 40 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 26 AM/PM
Conditions: 87 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint </div> <div style="width: 45%;"> <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System </div> </div>	Notes on Condition/Problems: Tide gate is working Ditch is clear Trash rack shows minor damage
System Designation: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin </div> <div style="width: 45%;"> <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other: _____ </div> </div>	Notes on Maintenance:
Overall Functionality: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional </div> <div style="width: 45%;"> <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide </div> </div>	
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep	Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Waitex Tide Gate (Carlstadt)



Figure 1: Downstream view at tide gate



Figure 2: Top view at tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: East Rutherford Tide Gate (Rutherford)

Location: Block 106.01 **Lot 18**

Description:

Date: 4/28/16

Time of Inspection: 10 : 19 AM/PM

Tide Conditions:

(Low/High)

Time of Tide Event: 8 : 19 AM/PM

Conditions: 58 degrees, Sunny

(Rain, Snow, High Wind, Cloudy, Sunny, etc.)

Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems:	
<input checked="" type="checkbox"/> Yearly	<input type="checkbox"/> Ditch	Minor debris at upstream trash rack	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate		
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System		
System Designation:			
<input checked="" type="checkbox"/> Natural Stream	<input type="checkbox"/> Culvert		
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall		
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	Notes on Maintenance:	
Overall Functionality:		Low priority for cleaning trash rack	
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide		
<input type="checkbox"/> Functional with Restrictions	<input checked="" type="checkbox"/> Low Tide		
<input type="checkbox"/> Non-Functional			
Maintenance Required:			
<input type="checkbox"/> Immediate		Other Notes:	
<input type="checkbox"/> Repair			
<input checked="" type="checkbox"/> Continued Upkeep			

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: East Rutherford Tide Gate (East Rutherford)



Figure 1: Downstream view of tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: East Rutherford Tide Gate (East Rutherford)



Figure 3: Upstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Belezza Tide Gate
Location: Block 287 Lot 81
Description:
Date: 5/23/16 **Time of Inspection:** 1 : 30 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 30 AM/PM
Conditions: 83 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Tide gate off hinge – not working Construction debris and trash in ditch Water backing up into ditch since tide gate is not operational
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input checked="" type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: BelezzaTide Gate (Kearny)



Figure 1: Overhead view of tide gate



Figure 2: Upstream view from tide gate

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Lyndhurst, New Jersey 07071



Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Belezza Ditch System (Kearny) – Location #1
Location: Block 287 Lot 81
Description:
Date: 5/13/16 **Time of Inspection:** 9 : 45 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 9 : 58 AM/PM
Conditions: 59 degrees, cloudy (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Tide gate is completely separated from the pipe. Upstream end of culvert is completely obscured by debris, but water is flowing.
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input type="checkbox"/> Culvert <input checked="" type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance: Repair tide gate Clear ditch
Overall Functionality: <input type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input checked="" type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input checked="" type="checkbox"/> Immediate <input type="checkbox"/> Repair <input type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: BelezzaTide Gate (Kearny)



Figure 1: Overhead view of tide gate



Figure 2: Downstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Bergen Avenue Tide Gate
Location: Block 275 Lot 3
Description:
Date: 5/12/16 **Time of Inspection:** 9 : 30 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 8 : 58 AM/PM
Conditions: 68 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: 1 Duckbill tide gate Ditch is clear at tide gate Not open at low tide Appears functional Upstream – heavy vegetation, ditch is not visible
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Bergen Avenue Tide Gate (Kearny)



Figure 1: Top view of tide gate



Figure 2: Downstream view from tide gate

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Bergen Avenue Tide Gate (Kearny)



Figure 1: Top view of tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Dead Horse Creek Tide Gate
Location: Block 53 Lot 5a
Description:
Date: 5/23/16 **Time of Inspection:** 1 : 30 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 30 AM/PM
Conditions: 83 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Twin pipes Both tide gates slightly open at high tide
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		
		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Dead Horse Creek Tide Gate (Kearny)



Figure 1: Upstream view of tide gate



Figure 2: Downstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Dead Horse Creek Tide Gate
Location: Block 253 Lot 5a
Description:
Date: 5/12/16 **Time of Inspection:** 9 : 40 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 8 : 58 AM/PM
Conditions: 68 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: 2 Duckbill tide gates Ditch is clear at tide gates Tide gates are slightly open Upstream – heavy vegetation, not visible Metal cage at tide gate
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Dead Horse Creek Tide Gate (Kearny)



Figure 1: Upstream view of tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Frank's Creek Tide Gate

Location:	Block 284	Lot 9ca
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Description:

Date: 5/25/16

Time of Inspection: 12 : 30 AM/PM

Tide Conditions: (Low/High) Time of Tide Event: 12 : 30 AM/PM

Conditions: 82 degrees, sunny

(Rain, Snow, High Wind, Cloudy, Sunny, etc.)

Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems:	
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Tide gates are functional, but there are several	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	holes in the concrete that allow high tide water to	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	flow into ditch	
System Designation:			
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert		
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall		
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	Notes on Maintenance:	
Overall Functionality:			
<input type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide		
<input checked="" type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide		
<input type="checkbox"/> Non-Functional			
Maintenance Required:			
<input type="checkbox"/> Immediate		Other Notes:	
<input type="checkbox"/> Repair			
<input checked="" type="checkbox"/> Continued Upkeep			

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Frank's Creek Tide Gate (Kearny)



Figure 1: Upstream view of tide gate



Figure 2: Downstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Frank's Creek Tide Gate
Location: Block 284 Lot 9ca
Description:
Date: 5/12/16 **Time of Inspection:** 10 : 34 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 8 : 58 AM/PM
Conditions: 68 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Ditch is clear at tide gate Water appears to be going around the tide gate Left tide gate – flow under gate or headwall Right tide gate – slightly open
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input type="checkbox"/> Fully Functional <input checked="" type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Frank's Creek Tide Gate (Kearny)



Figure 1: Upstream view of tide gate



Figure 2: Downstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Harrison Avenue Tide Gate
Location: Block 284 Lot 2a3b3ba
Description: near Walmart
Date: 5/23/16 **Time of Inspection:** 1 : 00 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 30 AM/PM
Conditions: 83 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Ditch is clear (a few shopping carts present) Twin pipes Tide gate is working
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Harrison Avenue Tide Gate (Kearny)



Figure 1: Upstream view of tide gate



Figure 2: Downstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Harrison Avenue Tide Gate
Location: Block 284 Lot 2a3b3ba
Description: at Walmart
Date: 5/12/16 **Time of Inspection:** 10 : 00 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 8 : 58 AM/PM
Conditions: 68 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Ditch is clear at tide gates There is minimal debris (3 shopping carts) 2 hinge tide gates Tide gates are slightly open Ditch is flowing
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Harrison Avenue Tide Gate (Kearny)



Figure 1: Upstream view of tide gate



Figure 2: Downstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: USPS Tide Gate

Location: Block 275 Lot 1

Description:

Date: 5/23/16

Time of Inspection: 1 : 00 AM/PM

Tide Conditions: (Low/High)

Time of Tide Event: : AM/PM

Conditions: 83 degrees, sunny

(Rain, Snow, High Wind, Cloudy, Sunny, etc.)

Inspected By: Fawzia Shapiro & Jeff Zielinski

[illegible]

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: USPS Tide Gate (Kearny)



Figure 1: Upstream view of tide gate



Figure 2: Upstream view from tide gate

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New Jersey Sports & Exposition Authority
One DeKorte Park Plaza
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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: USPS Tide Gate
Location: Block 275 Lot 1
Description:
Date: 5/12/16 **Time of Inspection:** 10 : 15 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 8 : 58 AM/PM
Conditions: 68 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Ditch is clear at tide gate There is no debris Single tide gate with hinge is slightly open Ditch is flowing
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		
Other Notes:		

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: USPS Tide Gate (Kearny)



Figure 1: Upstream view of tide gate



Figure 2: Upstream view from tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID/Name: DePeyster Creek Pump Station

Location: Dietrick Street, Little Ferry

File No.: _____ **Tide Conditions:** (Low, High)

Date: 9/30/2016 **Time:** 10 AM / PM

Conditions: Rain (Rain, Snow, High Wind, High/Low Tide, etc.)

Inspected By: Fawzia Shapiro/Jeff Zielinski

Type of Inspection:

- ☒ Yearly
☐ Post-Storm
☐ Complaint

System Designation:

- | | |
|--|--------------------------------------|
| <input checked="" type="checkbox"/> Tide Gate | <input type="checkbox"/> Catch Basin |
| <input checked="" type="checkbox"/> Drainage Ditch | <input type="checkbox"/> Culvert |
| <input type="checkbox"/> Natural Stream | <input type="checkbox"/> Outfall |
| <input checked="" type="checkbox"/> Pump System | <input type="checkbox"/> Other |

Overall Functionality:

- ☒ Fully Functional
☐ Functional with Restrictions
☐ Non-Functional

Notes on Condition/Problems:

The Little Ferry DPW maintains the pump station (Three pumps, 3-12" discharge pipes, and emergency generator). The ditch upstream of the pump station was dredged last year to remove excess silt.

Maintenance Required:

- ☐ Immediate
☐ Repair
☒ Continued Upkeep

Notes on Maintenance

Maintenance is ongoing.

Other Notes: _____



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Division of Land Use Management (LUM)
New Jersey Meadowlands Commission
One DeKorte Park Plaza
Lyndhurst, New Jersey 07071



Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: DePeyster Creek Pump Station (Little Ferry)



Figure 1: View of ditch adjacent to pump station



Figure 2: View of pump station and controls

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New Jersey Sports & Exposition Authority
One DeKorte Park Plaza
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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: DePeyster Creek Pump Station (Little Ferry)



Figure 3: View of pump station controls



Figure 4: View of pump station in operation

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New Jersey Sports & Exposition Authority
One DeKorte Park Plaza
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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID/Name: Losen Slote Pump Station and Tide Gate

Location: BCUA/Little Ferry

File No.: _____ Tide Conditions: (Low, High)

Date: 9/30/2016 Time: 10 AM / PM

Conditions: Rain (Rain, Snow, High Wind, High/Low Tide, etc.)

Inspected By: Fawzia Shapiro/Jeff Zielinski

Type of Inspection:

- ☒ Yearly
- ☐ Post-Storm
- ☐ Complaint

System Designation:

- | | |
|--|--------------------------------------|
| <input checked="" type="checkbox"/> Tide Gate | <input type="checkbox"/> Catch Basin |
| <input checked="" type="checkbox"/> Drainage Ditch | <input type="checkbox"/> Culvert |
| <input type="checkbox"/> Natural Stream | <input type="checkbox"/> Outfall |
| <input checked="" type="checkbox"/> Pump System | <input type="checkbox"/> Other |

Overall Functionality:

- ☒ Fully Functional
- ☐ Functional with Restrictions
- ☐ Non-Functional

Notes on Condition/Problems:

The Little Ferry DPW maintains the pump station (Three pumps, trash racks and emergency generator). The ditch upstream of the pump station is being dredged to remove excess silt.

Maintenance Required:

- ☐ Immediate
- ☐ Repair
- ☒ Continued Upkeep

Notes on Maintenance

Maintenance is ongoing.

Other Notes: _____



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One DeKorte Park Plaza
Lyndhurst, New Jersey 07071



Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Losen Slote Pump Station (Little Ferry)



Figure 1: View of trash racks



Figure 2: Upstream view of ditch from pump station

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Losen Slote Pump Station (Little Ferry)



Figure 3: Downstream view from pump station



Figure 4: Upstream view of ditch from pump station

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Losen Slote Pump Station (Little Ferry)



Figure 5: View of 3 pumps



Figure 6: Overall view of pump station

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Losen Slote Pump Station (Little Ferry)



Figure 7: Exterior view of of control room

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Lyndhurst, New Jersey 07071



Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: West Riser Tide Gate (Moonachie)

Location: Block 70 Lot 12

Description:

Date: 6/10/16 **Time of Inspection:** 2 : 00 AM/PM

Tide Conditions: (Low/High) **Time of Tide Event:** 2 : 45 AM/PM

Conditions: 76F, Sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)

Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems:
<input type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Debris on upstream side.
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	Large amounts of algae and plants growing through
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	algae.
System Designation:		
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert	
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall	
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other:	
Overall Functionality:		Notes on Maintenance:
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide	Bergen County Mosquito Commission to clear
<input type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide	debris
<input type="checkbox"/> Non-Functional		
Maintenance Required:		
<input type="checkbox"/> Immediate		Other Notes:
<input type="checkbox"/> Repair		
<input checked="" type="checkbox"/> Continued Upkeep		

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: West Riser Tide Gate (Moonachie)



Figure 1: Side view of tide gate



Figure 2: Side view of downstream side of tide gate

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: East Riser Tide Gate (Carlstadt)



Figure 3: Upstream view of ditch at tide gate



Figure 4: Downstream view of ditch at tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: West Riser Tide Gate (Moonachie)

Location: Block 123.01 **Lot 6**

Description:

Date: 4/28/16

Time of Inspection:	11	:	59	AM/PM
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Tide Conditions:

Low	High
-----	------

Time of Tide Event: 8 : 19 AM/PM

Conditions: 58 degrees, Sunny

(Rain, Snow, High Wind, Cloudy, Sunny, etc.)

Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems:
<input checked="" type="checkbox"/> Yearly	<input type="checkbox"/> Ditch	Debris at trash rack
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	Ditches are clear upstream and downstream
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	
System Designation:		
<input checked="" type="checkbox"/> Natural Stream	<input type="checkbox"/> Culvert	
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall	
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	
Overall Functionality:		Notes on Maintenance:
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide	Clear trash rack
<input type="checkbox"/> Functional with Restrictions	<input checked="" type="checkbox"/> Low Tide	
<input type="checkbox"/> Non-Functional		
Maintenance Required:		
<input checked="" type="checkbox"/> Immediate		Other Notes:
<input type="checkbox"/> Repair		
<input type="checkbox"/> Continued Upkeep		

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: West Riser Tide Gate (Moonachie)



Figure 1: Side view of tide gate upstream



Figure 2: Side view of tide gate downstream

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Overpeck Creek Tide Gate (Ridgefield)
Location: Block 4005 Lot 1
Description:
Date: 7/7/16 **Time of Inspection:** 10 : 00 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 32 AM/PM
Conditions: 90 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: 6 tide gates No trash racks required
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance: Tide gates are maintained weekly by Bergen Co. 1 generator is maintained as needed
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		Other Notes: Met with Christos Kavvadas from Bergen County Dept. of Planning & Engineering
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Overpeck Creek Tide Gate (Ridgefield)



Figure 1: Interior of emergency generator building



Figure 2: Exterior of emergency generator building

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Overpeck Creek Tide Gate (Ridgefield)



Figure 3: Interior of control room



Figure 4: Interior of control room

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Overpeck Creek Tide Gate (Ridgefield)



Figure 5: Close up of bascule gate



Figure 6: View of one bascule gate in operation from south of control room

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Overpeck Creek Tide Gate (Ridgefield)



Figure 7: View from north of control room



Figure 8: View down entire structure

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Rutherford Tide Gate (Rutherford)

Location:	Block	Lot
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Description:

Date: 4/28/16

Time of Inspection: 10 : 04 |AM/PM

Tide Conditions: (Low/High)

Time of Tide Event: 8 : 19 AM/PM

Conditions: 58 degrees, Sunny

(Rain, Snow, High Wind, Cloudy, Sunny, etc.)

Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems:	
<input checked="" type="checkbox"/> Yearly	<input type="checkbox"/> Ditch	Debris at upstream trash rack	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate		
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System		
System Designation:			
<input checked="" type="checkbox"/> Natural Stream	<input type="checkbox"/> Culvert		
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall		
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	Notes on Maintenance:	
Overall Functionality:		Clear trash rack	
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide		
<input type="checkbox"/> Functional with Restrictions	<input checked="" type="checkbox"/> Low Tide		
<input type="checkbox"/> Non-Functional			
Maintenance Required:			
<input type="checkbox"/> Immediate		Other Notes:	
<input type="checkbox"/> Repair			
<input checked="" type="checkbox"/> Continued Upkeep			

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Rutherford Tide Gate (Rutherford)



Figure 1: Upstream view of tide gate



Figure 2: Downstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID/Name: Acorn Road Pump Station

Location: Secaucus

File No.: _____ Tide Conditions: (Low, High)

Date: 08/10/16 Time: 10:30-11:30 AM / PM

Conditions: Sunny (Rain, Snow, High Wind, High/Low Tide, etc.)

Inspected By: FS/JZ

Type of Inspection:

- ☒ Yearly
☐ Post-Storm
☐ Complaint

System Designation:

- | | |
|---|--------------------------------------|
| <input type="checkbox"/> Tide Gate | <input type="checkbox"/> Catch Basin |
| <input type="checkbox"/> Drainage Ditch | <input type="checkbox"/> Culvert |
| <input type="checkbox"/> Natural Stream | <input type="checkbox"/> Outfall |
| <input checked="" type="checkbox"/> Pump System | <input type="checkbox"/> Other |

Overall Functionality:

- ☒ Fully Functional
☐ Functional with Restrictions
☐ Non-Functional

Notes on Condition/Problems:

One new Godwin pump (adjacent to a new parking lot) is maintained regularly by the Secaucus DPW. Secaucus completed a stormwater project where an adjacent ditch was piped (with internal check valve to replace a tide gate) to the Godwin pump (NJSEA file 11-288).

Maintenance Required:

- ☐ Immediate
☐ Repair
☒ Continued Upkeep

Notes on Maintenance

Maintained regularly by the Secaucus DPW.

Other Notes: _____



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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Acorn Road Pump Station (Secaucus)



Figure 1: Exterior pipe connections



Figure 2: View of Godwin pump

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Acorn Road Pump Station (Secaucus)



Figure 3: Interior of control room



Figure 4: Exterior of pump station

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Acorn Road Pump Station (Secaucus)



Figure 5: View of tide gate controls



Figure 6: View of screw pump

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Acorn Road Pump Station (Secaucus)



Figure 7: View of of control room



Figure 8: View of control room

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Acorn Road Tide Gate
Location: Block 203 Lot 19.02
Description:
Date: 5/26/16 **Time of Inspection:** 2 : 30 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 1 : 16 AM/PM
Conditions: 88 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: At high tide, no water backing up into ditch Tide gate is functional Notes on Maintenance: Other Notes:
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID/Name: Born Street Pump Station

Location: Secaucus

File No.: _____ Tide Conditions: (Low, High)

Date: 08/10/16 Time: 10:30-11:30 AM / PM

Conditions: Sunny (Rain, Snow, High Wind, High/Low Tide, etc.)

Inspected By: FS/JZ

Type of Inspection:

- ☒ Yearly
- ☐ Post-Storm
- ☐ Complaint

System Designation:

- | | |
|---|--------------------------------------|
| <input type="checkbox"/> Tide Gate | <input type="checkbox"/> Catch Basin |
| <input type="checkbox"/> Drainage Ditch | <input type="checkbox"/> Culvert |
| <input type="checkbox"/> Natural Stream | <input type="checkbox"/> Outfall |
| <input checked="" type="checkbox"/> Pump System | <input type="checkbox"/> Other |

Overall Functionality:

- ☒ Fully Functional
- ☐ Functional with Restrictions
- ☐ Non-Functional

Notes on Condition/Problems:

The tide gate at this location is a redundant tide gate and is not operational. The three vertical pumps and pit pump are fully functional and maintained regularly by the Secaucus DPW. The tide gate downstream of this pump is the Meadowlands Parkway tide gate #1.

Maintenance Required:

- ☐ Immediate
- ☐ Repair
- ☒ Continued Upkeep

Notes on Maintenance

Maintained regularly by the Secaucus DPW.

Other Notes: _____



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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Born Street Pump Station (Secaucus)



Figure 1: Interior of pump station



Figure 2: View of pit pump

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Born Street Pump Station (Secaucus)



Figure 3: Pump outfalls



Figure 4: Vertical pump in operation

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Born Street Pump Station (Secaucus)



Figure 5: Pit pump in operation

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Born Street Tide Gate & Pump Station (Secaucus)
Location: Block 163 Lot 1.01
Description:
Date: 7/7/16 **Time of Inspection:** 1 : 04 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 32 AM/PM
Conditions: 90 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Tide gate is mostly submerged at high tide No visible bubbling
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		Notes on Maintenance:
Overall Functionality: <input checked="" type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		
Other Notes:		

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Born Street Tide Gate (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name:	Born Street Tide Gate & Pump Station (Secaucus)				
Location:	Block 163	Lot 1.01			
Description:	near Extended Stay				
Date:	6/30/16	Time of Inspection:	1	:	32 AM/PM
Tide Conditions:	(Low/High)	Time of Tide Event:	12	:	26 AM/PM
Conditions:	87 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)				
Inspected By:	Fawzia Shapiro & Jeff Zielinski				

Type of Inspection:		Notes on Condition/Problems:	
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Ditch is clear	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	Tide gate is bent and permanently open at the	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	bottom	
System Designation:			
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert		
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall		
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	Notes on Maintenance:	
Overall Functionality:			
<input type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide		
<input checked="" type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide		
<input type="checkbox"/> Non-Functional			
Maintenance Required:			
<input type="checkbox"/> Immediate		Other Notes:	
<input type="checkbox"/> Repair			
<input checked="" type="checkbox"/> Continued Upkeep			

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Born Street Tide Gate (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID/Name: Golden Avenue Pump Station

Location: Secaucus

File No.: _____ Tide Conditions: (Low, High)

Date: 08/10/16 Time: 10:30-11:30 AM / PM

Conditions: Sunny (Rain, Snow, High Wind, High/Low Tide, etc.)

Inspected By: FS/JZ

Type of Inspection:

- ☒ Yearly
- ☐ Post-Storm
- ☐ Complaint

System Designation:

- | | |
|---|--------------------------------------|
| <input type="checkbox"/> Tide Gate | <input type="checkbox"/> Catch Basin |
| <input type="checkbox"/> Drainage Ditch | <input type="checkbox"/> Culvert |
| <input type="checkbox"/> Natural Stream | <input type="checkbox"/> Outfall |
| <input checked="" type="checkbox"/> Pump System | <input type="checkbox"/> Other |

Overall Functionality:

- ☒ Fully Functional
- ☐ Functional with Restrictions
- ☐ Non-Functional

Notes on Condition/Problems:

The two vertical pumps, one pit pump, and two screw pumps are fully functional and maintained regularly by the Secaucus DPW.

Maintenance Required:

- ☐ Immediate
- ☐ Repair
- ☒ Continued Upkeep

Notes on Maintenance

Maintained regularly by the Secaucus DPW.

Other Notes: _____



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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Golden Avenue Pump Station (Secaucus)



Figure 1: Interior of pump station



Figure 2: View of pit pump

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Golden Avenue Pump Station (Secaucus)



Figure 3: Interior of control room



Figure 4: Exterior of pump station

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Golden Avenue Pump Station (Secaucus)



Figure 5: View of tide gate controls



Figure 6: View of screw pump

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Golden Avenue Pump Station (Secaucus)



Figure 7: View of of control room



Figure 8: View of control room

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Koelle Road Tide Gate (Secaucus)

Location: Block 225 Lot 4.02

Description:

Date: 7/7/16

Time of Inspection: 1 : 20 AM/PM

Tide Conditions: (Low/High)

Time of Tide Event: 12 : 32 AM/PM

Conditions: 90 degrees, sunny

(Rain, Snow, High Wind, Cloudy, Sunny, etc.)

Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems: At high tide, inlets directly upstream contain moderate amounts of water No flooding in street
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	
System Designation:		
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert	
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall	
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other:	
Overall Functionality:		
<input type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide	
<input checked="" type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide	
<input type="checkbox"/> Non-Functional		
Maintenance Required:		Notes on Maintenance:
<input type="checkbox"/> Immediate		
<input type="checkbox"/> Repair		
<input checked="" type="checkbox"/> Continued Upkeep		
		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Koelle Boulevard Tide Gate (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Top view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name:	Koelle Boulevard Tide Gate (Secaucus)				
Location:	Block 225	Lot 4.02			
Description:	near residential development Creekside Manor				
Date:	6/30/16	Time of Inspection:	1	:	56 AM/PM
Tide Conditions:	(Low/High)	Time of Tide Event:	12	:	26 AM/PM
Conditions:	87 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)				
Inspected By:	Fawzia Shapiro & Jeff Zielinski				

Type of Inspection:		Notes on Condition/Problems:	
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Ditch is clear	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	Tide gate appears to be functioning properly	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System		
System Designation:			
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert		
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall		
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	Notes on Maintenance:	
Overall Functionality:			
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide		
<input type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide		
<input type="checkbox"/> Non-Functional			
Maintenance Required:			
<input type="checkbox"/> Immediate		Other Notes:	
<input type="checkbox"/> Repair			
<input checked="" type="checkbox"/> Continued Upkeep			

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Koelle Boulevard Tide Gate (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Top view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Meadowlands Parkway Tide Gate #1 (Secaucus)
Location: Block 100 Lot 2
Description: near Red Roof Inn
Date: 7/7/16 **Time of Inspection:** 1 : 00 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 32 AM/PM
Conditions: 90 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems: Tide gate is not visible due to dense vegetation
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	
System Designation:		
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert	
<input type="checkbox"/> Manmade Channel	<input checked="" type="checkbox"/> Outfall	
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other:	
Overall Functionality:		
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide	
<input type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide	
<input type="checkbox"/> Non-Functional		
Maintenance Required:		Notes on Maintenance:
<input type="checkbox"/> Immediate		
<input type="checkbox"/> Repair		
<input checked="" type="checkbox"/> Continued Upkeep		
		Other Notes:

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Meadowlands Parkway Tide Gate #1 (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name:	Meadowlands Parkway Tide Gate #1 (Secaucus)			
Location:	Block 100	Lot 2		
Description:	near Red Roof Inn			
Date:	6/30/16	Time of Inspection:	1	17 AM/PM
Tide Conditions:	(Low/High)	Time of Tide Event:	12	26 AM/PM
Conditions:	87 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)			
Inspected By:	Fawzia Shapiro & Jeff Zielinski			

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Meadowlands Parkway Tide Gate #1 (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Upstream view of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Meadowlands Parkway Tide Gate # 2 (Secaucus)
Location: Block 100 Lot 2
Description: near Hess Site
Date: 7/7/16 **Time of Inspection:** 12 : 55 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 32 AM/PM
Conditions: 90 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection:		Notes on Condition/Problems:
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Tide gate completely under water at high tide
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	Flooding at adjacent area
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System	Inlet on Meadowlands Parkway is full of water
System Designation:		
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert	
<input type="checkbox"/> Manmade Channel	<input checked="" type="checkbox"/> Outfall	
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other:	
Overall Functionality:		
<input type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide	
<input type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide	
<input checked="" type="checkbox"/> Non-Functional		
Maintenance Required:		
<input type="checkbox"/> Immediate		Other Notes:
<input checked="" type="checkbox"/> Repair		
<input type="checkbox"/> Continued Upkeep		

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Meadowlands Parkway Tide Gate #2 (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Area upstream of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: Meadowlands Parkway Tide Gate #2 (Secaucus)
Location: Block 100 Lot 2
Description: near DOT yard
Date: 6/30/16 **Time of Inspection:** 1 : 15 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 12 : 26 AM/PM
Conditions: 87 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input type="checkbox"/> Pump System		Notes on Condition/Problems: Pavement area near Meadowlands Parkway is collapsed and stone washed away toward tide gate.
System Designation: <input checked="" type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input checked="" type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input type="checkbox"/> Other:		
Overall Functionality: <input type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input checked="" type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Continued Upkeep		
		Notes on Maintenance:
		Other Notes: Need to verify at high tide to determine if tide gate is at all functional

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Meadowlands Parkway Tide Gate #2 (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Area upstream of tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID/Name: River Road Pump Station

Location: Secaucus

File No.: _____ Tide Conditions: (Low, High)

Date: 08/10/16 Time: 10:30-11:30 AM / PM

Conditions: Sunny (Rain, Snow, High Wind, High/Low Tide, etc.)

Inspected By: FS/JZ

Type of Inspection:

- ☒ Yearly
- ☐ Post-Storm
- ☐ Complaint

System Designation:

- | | |
|---|--------------------------------------|
| <input type="checkbox"/> Tide Gate | <input type="checkbox"/> Catch Basin |
| <input type="checkbox"/> Drainage Ditch | <input type="checkbox"/> Culvert |
| <input type="checkbox"/> Natural Stream | <input type="checkbox"/> Outfall |
| <input checked="" type="checkbox"/> Pump System | <input type="checkbox"/> Other |

Overall Functionality:

- ☒ Fully Functional
- ☐ Functional with Restrictions
- ☐ Non-Functional

Notes on Condition/Problems:

The two underground pumps and a new Primax above-grade pump are fully functional and maintained regularly by the Secaucus DPW. An internal check valve was installed in the pipe to prevent backflow of the tide.

Maintenance Required:

- ☐ Immediate
- ☐ Repair
- ☒ Continued Upkeep

Notes on Maintenance

Maintained regularly by the Secaucus DPW.

Other Notes: _____



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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: River Road Pump Station (Secaucus)



Figure 1: View of Primax above grade pump



Figure 2: View of pit

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name: River Road Tide Gate and Pump Station (Secaucus)
Location: Block 195 Lot 5
Description:
Date: 5/26/16 **Time of Inspection:** 2 : 50 AM/PM
Tide Conditions: (Low/High) **Time of Tide Event:** 1 : 16 AM/PM
Conditions: 88 degrees, sunny (Rain, Snow, High Wind, Cloudy, Sunny, etc.)
Inspected By: Fawzia Shapiro & Jeff Zielinski

Type of Inspection: <input checked="" type="checkbox"/> Yearly <input type="checkbox"/> Post-Storm <input type="checkbox"/> Complaint <input type="checkbox"/> Ditch <input checked="" type="checkbox"/> Tide Gate <input checked="" type="checkbox"/> Pump System		Notes on Condition/Problems: One intake and buried discharge pipe At outfall – 2 pipes Pump + 1 Godwin Not able to view tidegate
System Designation: <input type="checkbox"/> Natural Stream <input type="checkbox"/> Manmade Channel <input type="checkbox"/> Catch Basin <input type="checkbox"/> Culvert <input type="checkbox"/> Outfall <input checked="" type="checkbox"/> Other: TG & PS		Notes on Maintenance:
Overall Functionality: <input type="checkbox"/> Fully Functional <input type="checkbox"/> Functional with Restrictions <input type="checkbox"/> Non-Functional <input type="checkbox"/> High Tide <input type="checkbox"/> Low Tide		
Maintenance Required: <input type="checkbox"/> Immediate <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Continued Upkeep		Other Notes:

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID / Name:	Route 3 West DOT Tide Gate (Secaucus)			
Location:	Block 180	Lot 23		
Description:	near Royal Motel			
Date:	6/30/16	Time of Inspection:	<u>2</u> : <u>23</u> AM/PM	
Tide Conditions:	(<u>Low</u> /High)	Time of Tide Event:	<u>12</u> : <u>26</u> AM/PM	
Conditions:	87 degrees, sunny	(Rain, Snow, High Wind, Cloudy, Sunny, etc.)		
Inspected By:	Fawzia Shapiro & Jeff Zielinski			

Type of Inspection:		Notes on Condition/Problems:	
<input checked="" type="checkbox"/> Yearly	<input checked="" type="checkbox"/> Ditch	Ditch is clear	
<input type="checkbox"/> Post-Storm	<input checked="" type="checkbox"/> Tide Gate	Tide gate is not visible due to heavy vegetation	
<input type="checkbox"/> Complaint	<input type="checkbox"/> Pump System		
System Designation:			
<input checked="" type="checkbox"/> Natural Stream	<input checked="" type="checkbox"/> Culvert		
<input type="checkbox"/> Manmade Channel	<input type="checkbox"/> Outfall		
<input type="checkbox"/> Catch Basin	<input type="checkbox"/> Other: _____	Notes on Maintenance:	
Overall Functionality:			
<input checked="" type="checkbox"/> Fully Functional	<input type="checkbox"/> High Tide		
<input type="checkbox"/> Functional with Restrictions	<input type="checkbox"/> Low Tide		
<input type="checkbox"/> Non-Functional			
Maintenance Required:			
<input type="checkbox"/> Immediate		Other Notes:	
<input type="checkbox"/> Repair			
<input checked="" type="checkbox"/> Continued Upkeep			

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Route 3 West DOT Tide Gate (Secaucus)



Figure 1: Downstream view at tide gate



Figure 2: Downstream view at tide gate

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Drainage System Inspection Log

National Flood Insurance Program / Community Rating System

Site ID/Name: Secaucus High School Pump Station

Location: Secaucus

File No.: _____ Tide Conditions: (Low, High)

Date: 08/10/16 Time: 10:30-11:30 AM / PM

Conditions: Sunny (Rain, Snow, High Wind, High/Low Tide, etc.)

Inspected By: FS/JZ

Type of Inspection:

- ☒ Yearly
- ☐ Post-Storm
- ☐ Complaint

System Designation:

- | | |
|---|--------------------------------------|
| <input type="checkbox"/> Tide Gate | <input type="checkbox"/> Catch Basin |
| <input type="checkbox"/> Drainage Ditch | <input type="checkbox"/> Culvert |
| <input type="checkbox"/> Natural Stream | <input type="checkbox"/> Outfall |
| <input checked="" type="checkbox"/> Pump System | <input type="checkbox"/> Other |

Overall Functionality:

- ☒ Fully Functional
- ☐ Functional with Restrictions
- ☐ Non-Functional

Notes on Condition/Problems:

The two vertical pumps and pit pump are fully functional and maintained regularly by the Secaucus DPW. A new Primax back-up pump was installed in 2015 and a new generator was installed in 2014.

Maintenance Required:

- ☐ Immediate
- ☐ Repair
- ☒ Continued Upkeep

Notes on Maintenance

Maintained regularly by the Secaucus DPW.

Other Notes: _____



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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Secaucus High School Pump Station (Secaucus)



Figure 1: View of pumps at interior of pump stations



Figure 2: View of pumps at interior of pump stations

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Secaucus High School Pump Station (Secaucus)



Figure 3: Interior of control room



Figure 4: View of pump outfall in operation

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Drainage System Inspection Photos

National Flood Insurance Program / Community Rating System

Site ID/Name: Secaucus High School Pump Station (Secaucus)



Figure 5: View of emergency generator



Figure 6: View of Primax backup pump

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Water Control Structure Locations Within the Borough of Carlstadt



Water Control Structure Locations Within the Borough of East Rutherford



Legend

- | | |
|---|---|
| <ul style="list-style-type: none"> Tide Gate(s) Pump Station Tide Gate(s) & Pump Station Decommissioned | <ul style="list-style-type: none"> Channels District Boundary Municipal Boundaries Water Bodies |
|---|---|

NJSEA

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Land Use Management

Scale: 1" = 1500'

1,500 0 1,500 3,000 Feet



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Water Control Structure Locations Within the Town of Kearny - Map A



Water Control Structure Locations Within the Town of Kearny - Map B



Water Control Structure Locations Within the Town of Little Ferry



Water Control Structure Locations Within the Borough of Moonachie



Water Control Structure Locations Within the Borough of Ridgefield



Water Control Structure Locations Within the Borough of Rutherford



Legend

- Tide Gate(s)
- Pump Station
- Tide Gate(s) & Pump Station
- Decommissioned
- Channels
- District Boundary
- Municipal Boundaries
- Water Bodies

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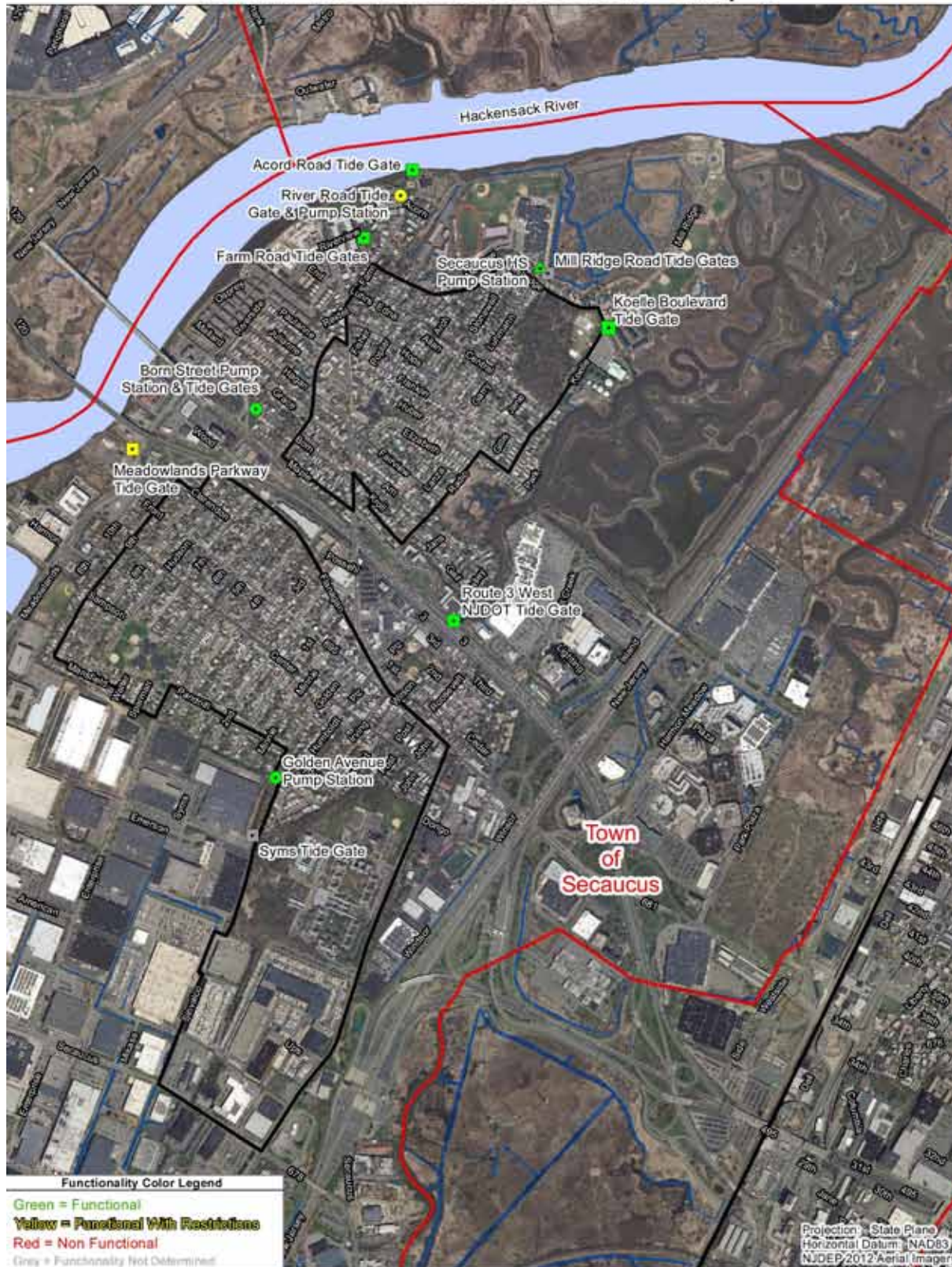
Scale: 1" = 1000'

1,000 0 1,000 2,000 Feet



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Water Control Structure Locations Within the Town of Secaucus - Map A



Legend

- | | |
|-----------------------------|----------------------|
| Tide Gate(s) | Channels |
| Pump Station | District Boundary |
| Tide Gate(s) & Pump Station | Municipal Boundaries |
| Decommissioned | Water Bodies |

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Land Use Management

Scale: 1" = 1000'

1,000 0 1,000 2,000 Feet



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Water Control Structure Locations Within the Town of Secaucus - Map B



Water Control Structure Locations Within the Borough of Teterboro



Water Control Structures within the New Jersey Meadowlands District

